

ABSTRACT

An apparatus for separating molten aluminium from a mixture of molten aluminium and aluminium dross includes a table for supporting an insulated crucible containing the mixture of molten aluminium and aluminium dross. A rotatable frame supports a plurality of tines which can be lowered into the mixture in the crucible for stirring the mixture. Vibration means are provided enabling simultaneous vibration of the crucible and stirring of the mixture. The tines cut through the dross in a shearing action gently rolling the dross, mixing and tumbling it and causing the droplets of aluminium to coalesce. The aluminium droplets and particles in the dross coalesce to form larger droplets and gradually sink to the base of the crucible. A screening means is disposed to substantially surround the crucible when it is supported by the table, which includes a door to both allow and prevent access to the crucible.